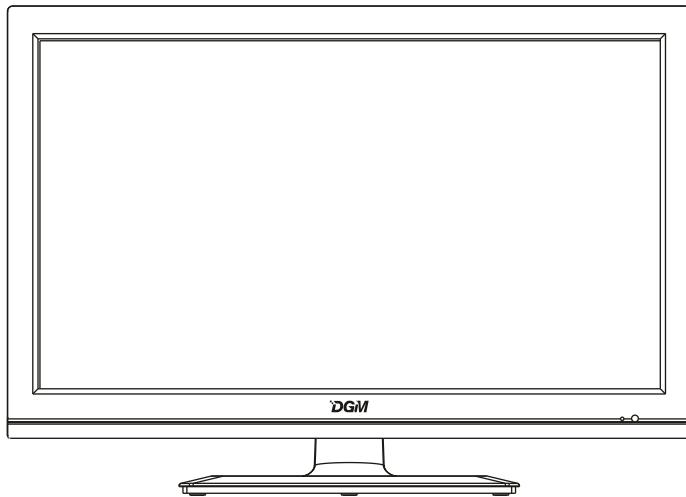


DGM

LTV-2291WHC



User's Manual

22" Wide Screen Digital LCD TV

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WARNINGS AND PRECAUTIONS

To prevent any injuries, the following safety precautions should be observed in the installation, use, servicing and maintenance of this equipment. Before operating this equipment, please read this manual.



This symbol is intended to alert the user to avoid the risk of electric shock. This equipment must not be disassembled by anyone except qualified service personnel.



This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.



To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

- TO REDUCE THE RISK OF ELECTRIC SHOCK, PERSONNEL.
- DO NOT REMOVE COVER (OR BACK).
- NO USER-SERVICEABLE PARTS INSIDE.
- REFER SERVICING TO QUALIFIED SERVICE



Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



This symbol indicates caution points.



This symbol indicates actions that should not be done.



This symbol indicates actions that must be performed.



• Do not place the equipment on any uneven or unstable carts, stands, tables, shelves etc. The equipment may fall, causing serious injury to children or adults and serious damage to the equipment itself.

• Use only a cart or stand recommended by the manufacturer. This equipment and recommended cart or stand should be handled with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart/stand to overturn.

• Do not disable the 3-wire grounding type plug. The grounding pin on the 3-prong plug is an important feature. Removing the grounding pin will increase the risk of damaging the equipment.

• If you can not fit the plug into the electrical outlet, contact an electrician to install a grounding outlet.

• Always operate this equipment from the type of power source indicated on the rear of the serial/model information label.

• Never overload wall outlets and extensions.

• Use and handle the power cord with care. Do not place any heavy objects on the AC power cord.

• Do not pull the AC power cord. Do not handle the AC power cord with a wet hand.

• Do not touch the power cord and antenna cable during lightning.



- Remove the plug from the wall outlet, if the equipment will not be used for a long period of time.
- Do not place, use or handle this equipment near water.
- Never expose the equipment to liquid, rain, or moisture. Seek for service if any liquid above is spilled into the equipment.
- Do not expose the equipment to extreme temperature or to direct sunlight, as the equipment may heat up and suffer damage.
- Do not install the equipment near any heat sources such as radiators, heat registers, stoves, or any other apparatus that might produce heat.
- Do not attempt to service the equipment yourself.
- Opening and removing the covers may expose you to dangerous voltage or other hazards and may void your warranty. Refer service to qualified personnel.
- Do not place or drop any other objects on top.
- Do not insert anything into the ventilation holes of your equipment. Inserting any metal or flammable objects may result to fire or electric shock.
- Do not place the equipment on uneven or unstable carts, stands, tables, shelves etc. The equipment may fall, causing serious injury to children or adults and serious damage to the equipment itself. Always place the equipment on the floor or on a surface that is sturdy, level, stable and strong enough to support the weight of the equipment.
- Do not block any ventilating openings. Leave an open space around the equipment. Never place the equipment : on a bed, sofa, rug, or any other similar surfaces; too close to drapes/curtains/walls, in a bookcase, built-in cabinet, or any other similar places that may cause poor ventilation.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- Always remove the power cord from the outlet before cleaning the equipment.
- Never use liquid or aerosol cleaners on the equipment.
Clean only with a soft dry cloth.



- Only use attachments/accessories specified by the manufacturer.



LISTENING WITH EARPHONES

- Listen at moderate Volumes to avoid hearing damage.
- If you hear no sound during playback, do not turn the Volume up as the music may suddenly begin at a high Volume. Excessive sound pressure from earphones and headphones can cause hearing loss.
- To avoid damaging your ears, adjust the Volume to the lowest level before playback, and turn up to the desired level when playback has started.

Note: This user manual is for reference only, the actual unit maybe changed



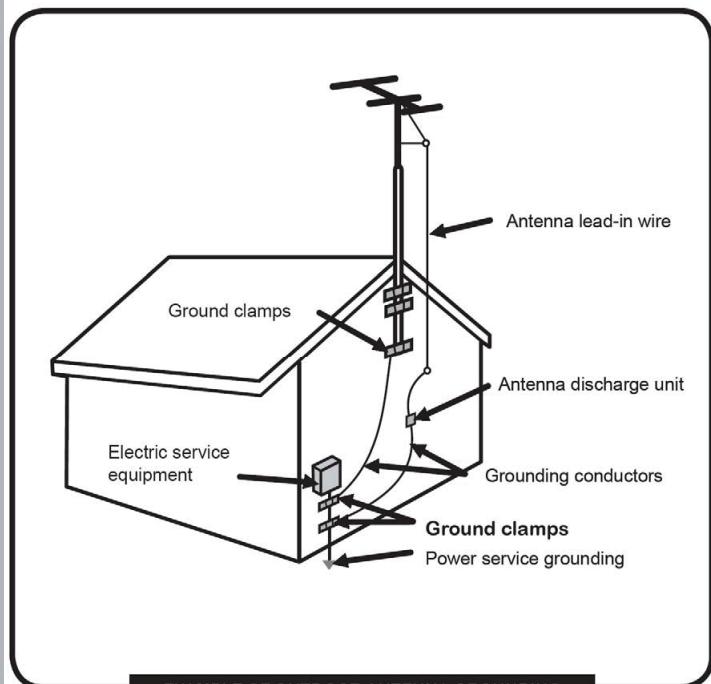
This sign indicates that this product may not be disposed of with your regular household waste. The recycling and separate collection of such products is your responsibility. Please drop off the above-mentioned waste at a designated place for recycling waste electrical and electronic equipment. If you do not know where to drop off you recycling, please contact your local city office or household

i

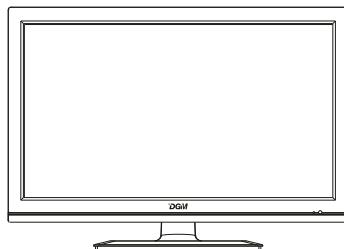
If an outdoor antenna is connected, follow the precautions below:



- An outdoor antenna should not be located in any area where it could come in contact with overhead power lines, or any other electric light or power circuits.
- When installing an outdoor antenna system, extreme caution should be taken to prevent contact with power lines. Direct contact with power lines may be fatal and should be avoided at all costs.



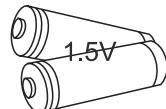
Package Contents



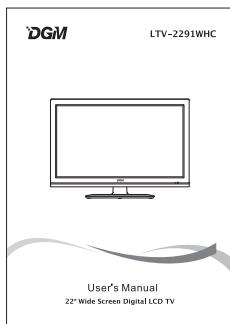
LCD TV SET



Remote control



AAA Batteries



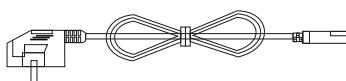
User Manual

UK	0871-258-8000	Portugal	00800-34438798
France	0825-700150	Latvia	00800-34438799
Austria	0826-309753	Belgium	00800-34438796
Germany	0709-40748332	Ireland	00800-34438795
Italy	144-008002	Norway	00800-34438790
Spain	902-008413	Norway	00800-14438796
Netherlands	0900-5050600	Denmark	00800-34438794
Switzerland	0843-700567	Czech Republic	000-12281
Finland	00800-34438791	Hungary	000-12280
Poland	00800-4911417	Bulgaria	0001104959
Croatia	00800-49721220	Morocco	0009-00852
Slovakia	0000-00000000	Lithuania	000010107
Liechtenstein	000041	Estonia	000111405
Romania	000100613		

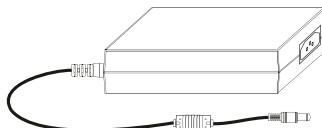
Warranty Card



Warranty Book



Power cord



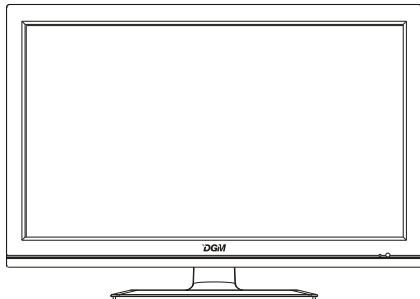
AC Adapter



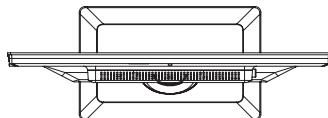
The power cord type may be different depending on your country's power type.

How to install the TV Stand

1 Open the box, and make sure all necessary parts are in the box.
The package contains:

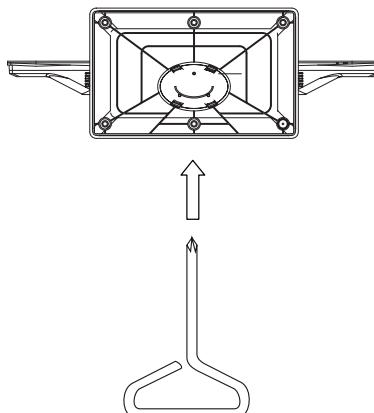


LCD TV



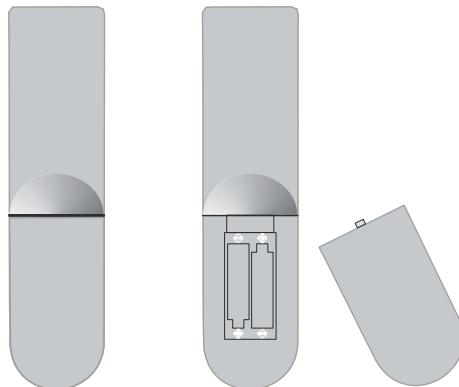
Stand

2 Cover an even stable surface with a soft cloth. Place the LCD TV unit face-down on the cloth. Fit the stand onto the bottom of the LCD TV unit as shown, then use a screw driver to tighten the screw on the bottom of the stand until the screw is firmly fixed in place.



How to setup the TV

- 1** Use a supplied antenna cable to connect the VHF/UHF signal to the LCD TV's ANT. terminal
- 2** Connect the AC power cord at the back of the TV and connect the power cord to wall outlet.
- 3** Insert the 2 batteries supplied in remote control.



Step1 Slide the back cover up to open the battery compartment of the remote control.

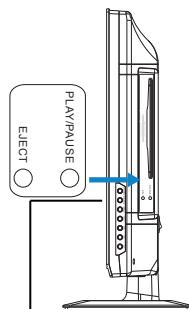
Step2 Insert two AAA size batteries. Make sure to match the (+) and (-) ends of the batteries with the (+) and (-) ends indicated in the battery compartment. Slide the cover back into place.



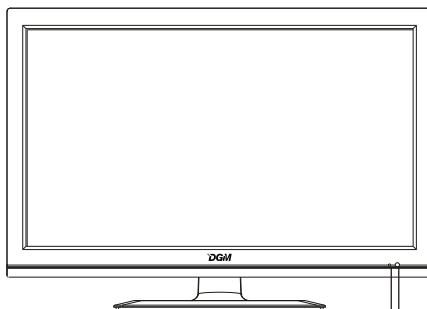
Do not use caustic cleaners (porcelain, stainless steel, toilet, or oven cleaner etc.) on the remote, as it may suffer damage.

Front/left/Right Side View and Controls

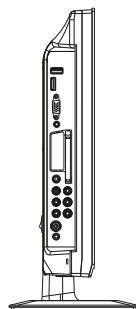
Right Side View



Front View



Left Side View

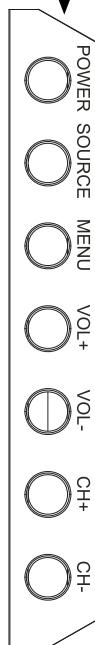


LED

The LED light indicates when the LCD TV is activated.

IR

Infrared Receiver



SOURCE

Chooses from different input signal sources.

MENU

Press once to display the OSD (on screen display), press again to turn the OSD off.

CH+/-

Scans up and down through channels. Selects sub-menu item when in the OSD mode.

VOL+/-

Adjusts the volume up and down. Selects the main-menu item and change values for items when in the OSD mode..

POWER

Turns the LCD TV on and into standby mode.

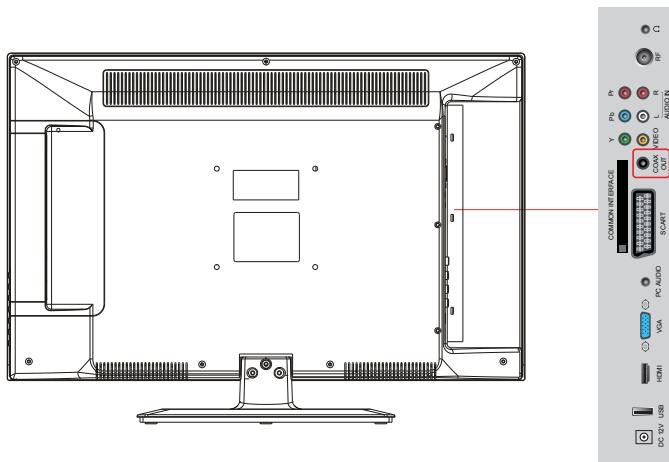
PLAY/PAUSE

Press PLAY/PAUSE to play the disc under DVD mode.

EJECT

Eject DVD disk.

Reae View and Jacks



DC 12V

Input 12V DC power.

USB*/PVR

Allows access to digital content stored on a USB storage.

HDMI IN

Connects the all digital AV equipment with HDMI connector.

VGA/PC AUDIO

Connects the PC, or other AV equipment with VGA and line in jacks.

CI

Insert the CI card into the slot

SCART

Connect to external equipment with scart socket. The SCART interface offers RGB, AV signals with audio input/output between the TV and external video equipment

YPbPr

Connects to the DVD player, Digital Set-Top-Box, or other AV equipment with component (YPbPr) video

HEAD PHONE

Connect the head phone.

COAXIAL

Connects to the audio jack on the digital/standard 5.1 audio system.

AUDIO IN L/R

CVBS and YPbPr audio input jacks.

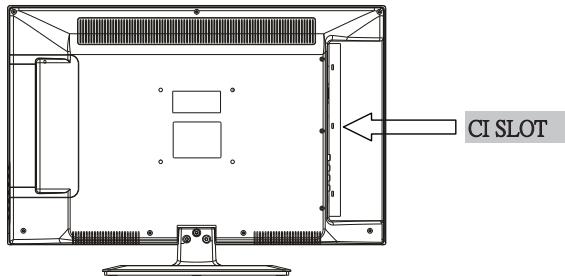
RF

Connects RF input from VHF/UHF antenna or cable to receive high/standard definition television.

VIDEO

Connect the Video output jack of DVD or VCR.

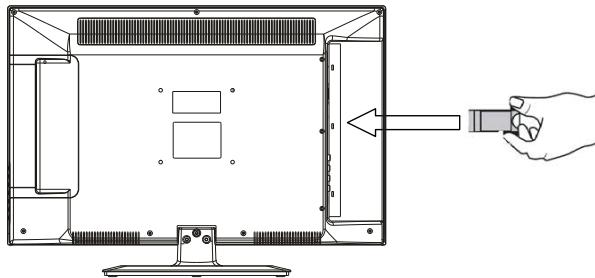
How to connect CI(Common Interface) card



To view the scrambled (pay) services in digital TV mode.

TO INSERT A CI CARD

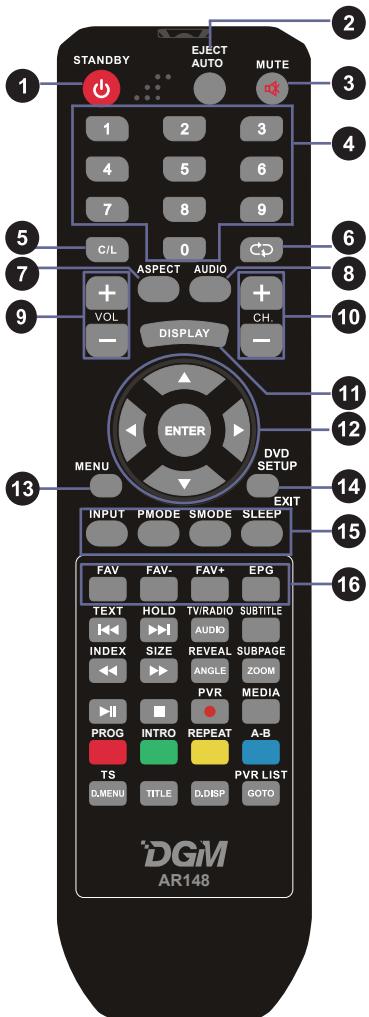
Insert the CI card into the slot in the direction of the arrow until it fits.



TO REMOVE A CI CARD

When removing the CI card, do pull it from its slot.

This function enables you to watch the scrambled services (payservices) in some channels. If you remove the CI Module, you can watch the available digital/analogue programme in some channels.



- 1 **STANDBY** Turns the LCD TV on and into standby mode.
- 2 **AUTO/EJECT** Press this key to AUTO config the picture setting while in VGA mode, or EJECT the disk in DVD mode.
- 3 **MUTE** Mutes and restores your LCD TV sound.
- 4 **0-9** Pressing a number selects a channel.
- 5 **C/L** Press this button continuously to select Country and Language.
- 6 **C/P** Switches back and forth between the current and previous channels.
- 7 **ASPECT** Cycles through Wide mode settings.
- 8 **AUDIO** Audio selection button.
- 9 **VOL+/VOL-** Increases and decreases volume.
- 10 **CH+/CH-** Scans up and down the channels.
- 11 **DISPLAY** Pressing once displays a variety of information such as the current channel and the input source.
- 12 **▲▼◀▶/ENTER** The four directions allow you to navigate the menu .
- 13 **ENTER** Press this key enters chose item or into channel list. Both ENTER and OK function.
- 14 **MENU** Displays the OSD menu on the screen.
- 14 **DVD SETUP/EXIT** To show the DVD SETUP menu while in DVD mode, or EXIT current setting in any mode.
- 15 **INPUT** Pressing INPUT displays the source list, use ▲▼ to select the video equipment connected to the video inputs of your LCD TV, and press ENTER button to confirm.
- 15 **P.MODE** Selection picture mode.
- 15 **S.MODE** Selects sound effect options.
- 15 **SLEEP** Set the sleep timer.
- 16 **FAV** Show the list of favorite channels.
- 16 **FAV+/ FAV-** Increase/decrease favorite channels.
- 16 **EPG** Displays the Programme Guide on the screen in DTV mode. Pressing again to turn GUIDE off.



Effective range:
The remote can control the LCD TV from up to 5m away, if pointed directly at the receiver.

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TEXT Turns on and off the Teletext function.
◀◀ In Media mode, press to jump to the previous of the currently played chapter or track.

HOLD Freeze a multi-page passage on screen in Teletext mode.

▶▶ In Media mode, press to jump to the next of the currently played chapter or track.

TV/RADIO In DTV mode, press TV/RADIO button to enter DTV or RADIO mode.

AUDIO Change the audio language of current service if available.

SUBTITLE Open or close subtitle.

18

INDEX Display the main index in Teletext mode.

SIZE Displays the top, bottom or all of page, to easily read in TELETEXT mode.

◀◀/▶▶ In Media mode, use to reverse/advance playback rapidly.

REVEAL Reveals hidden information such as the answer to a quiz in TELETEXT mode.

ANGLE Use to access various camera angles on a DVD.

SUBPAGE Press it to see subpage and press again to cancel.

ZOOM Zoom in or out while in DVD mode.

19

▶|| In Media mode, press to start playback or pause.

■ In Media mode, press to stop playback.

PVR In DTV mode, press PVR button to start recording, press ■ button to stop recording.

MEDIA Press to switch to USB signal source directly.

PROG Use the PROG button to edit the sequence of he program when in DVD mode.

INTRO Use the INTRO button to show nine sub pictures of the program if the disk inserted support this function.

REPEAT Use the Repeat button to repeats selected sections in DVD mode.

A-B A-B selects the start and finish points in repeat cycle in DVD mode.

● ● ● ● Press the appropriate colour to direct access functions in TELETEXT, EPG OSD, and MEDIA signal source mode.

21

TIME SHIFT In DTV mode, press TS button to start the delay function, press the ▶|| button to start playing delay program, press the ■ button to terminate the delay functions.

D.MENU While in DVDmode:

1. When CDDA/MP3/JPEG/GAME is played,it is invalid.
2. When VCD is played ,brings up the Disc menu.
3. When DVD is played ,brings up the Root Menu.

TITLE When DVD is playing, brings up the Title Menu.

D.DISP Displays the dis info.

GOTO Allow to search forward/backward through a disc.

PVR LIST In DTV mode, displays the executed PVR LIST.

Installing the LCD TV

Refer to the owner's manual of any external equipment to be connected. When connecting any external equipment, do not connect any AC power cords to wall outlets until all other connections are completed.

Connecting a TV Cable or an Antenna

Antenna Connection

The antenna requirements for good color TV.

- A 75-ohm system is generally a round cable (not included) with IEC-type connector that can easily be attached to a terminal without tools.

IEC-type connector



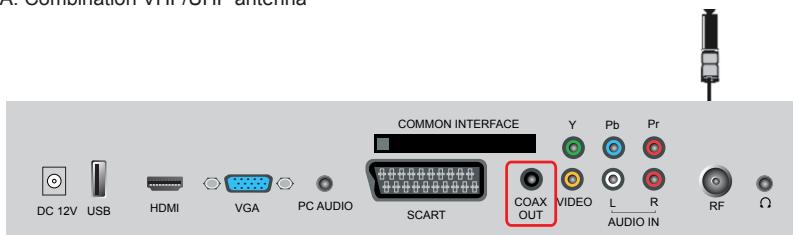
75-ohm coaxial cable (round)

Use one of the following two diagrams when connecting an outdoor antenna.

A: Shows how to use a VHF/UHF combination outdoor antenna.

B: Shows how to use a separate VHF and/or UHF outdoor antenna.

A. Combination VHF/UHF antenna



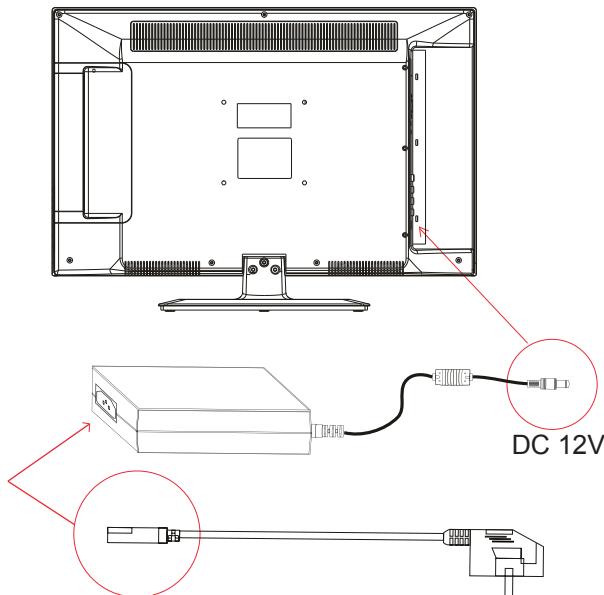
Cable TV (CATV) Connection

- When connecting the 75-ohm coaxial cable to the set, connect the 75-ohm cable into the ANT. terminal.
- Some cable TV companies offer premium pay channels. Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company.

For more specific instructions on installing cable TV, consult your cable TV company. One possible method of connecting the converter/descrambler provided by your cable TV company is shown in the diagram below

1 Use a supplied antenna cable to connect the TV signal to the LCD TV's TV CABLE terminal.

2 Connect the AC power cord at the back of the TV and connect the power cord to wall outlet.



3 Press the button on the remote to turn on the LCD TV.



Always disconnect the LCD TV from the power outlet when the LCD TV will not be used for a long period of time.
The POWER button on the front panel is only used for switching the LCD TV into standby, it does not disconnect the device from the main voltage. To completely disconnect the main voltage, please remove the power plug from the socket.

4 Press the SOURCE button on the remote to display the Source List. Use the buttons to select DTV source, and press the ENTER button.

1. Main Menu outlook and description

Main Menu items (from right order CHANNEL -> PICTURE -> SOUND -> TIME -> OPTION -> LOCK) at DTV/ATV input source, the first page showed is CHANNEL. At non DTV/ATV input source, the first page is PICTURE as default. Currently press ENTER to get in sub menu

1.1 CHANNEL:

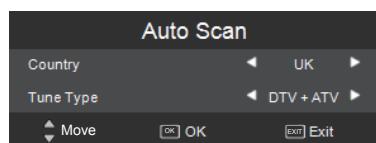


Note:

- 1) CHANNEL can be only selected under ATV/DTV condition, others can't be used.

1.1.1 Auto Scan:

Enter Auto Scan, it shows the frames of 'country' and 'tune type' optional.

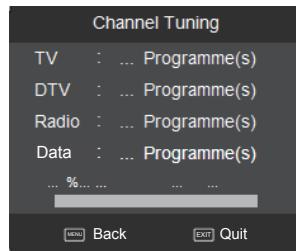


1) function declaration:

Items	Adjust item	Default	description
Scan Type	DTV + ATV -> DTV -> ATV	DTV + ATV	
Country selection	UK -> Australia > ...		The default country depends on the shipping place or clients appointed place, if no appointed, put UK as default..

2) operation declaration

Press move to select up and down, press DONE to start scanning. When scanning, the first 50% processing means ATV tuning, the last 50% processing means DTV tuning.



When ATV tuning, you can press exit to skip ATV tuning and start DTV tuning, as following:



1.1.2 DTV manual tuning:

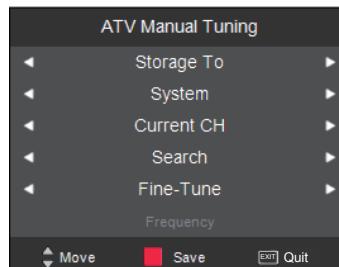


1) function description:

Item	Adjust item	default	description
CH	Depends on countries		Select channel with leftright button, and press ENTER to confirm if any signal strength shows.

2) Press ENTER to confirm tuning (only in DTV condition).

1.1.3 ATV manual tuning:

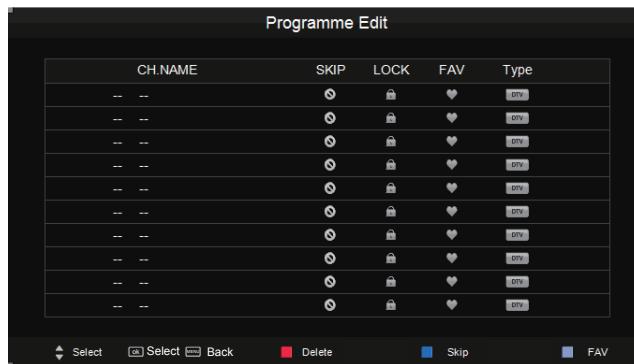


1) function description:

Item	Adjust item	default	Description
Storage To	1 – 100	1	Current storage space shows
System	BG -> I -> DK -> L		Default option depends on country selection
Current CH	1 – 100	1	Current channel shows
Search			Can be searched at full channel condition
Fine-Tune			Fine-tune
Frequency	When gray , no selected		Show the current frequency, and follow Search or Fine-Tune to adjust.

2) operation instruction: after tuning by hand, make sure to press RED button for storage, otherwise all channels searched would not be stored after switching condition.

1.1.4 Programme Edit



1) format and description

Encryption identity	LCN	CH Name	Skip identity	Lock identity	Fav identity	System
S	21	ABC1	∅	🔒	♥	DTV

1. the Cannel menu includes "Delete/Move/Skip /Rename /Fav". " Lock, Fav, Skip" can be used when clients do some settings to the channel. (Fav can not be fixed together with Skip).

2) keypress operation introduction

Button	range	description
▲	ATV/DTV	Page up, can turn page by circle
▼	ATV/DTV	Page down, can turn page by circle
■ (DELETE)	ATV/DTV	Delete current channel, as follows: 1) at normal condition, press ■ to enter DELETE mode 2) at DELETE mode, the button can be used as: MENU: exit DELETE to enter normal condition EXIT: exit menu ■: cancel current channel, and turn back to normal
■ (RENAME)	ATV	Modify current channel name, only used in ATV mode. Operation instruction: 1) at normal condition, press ■ to enter RENAME 2) at RENAME mode,: MENU: exit RENAME mode, back to normal EXIT: exit menu UP/DOWN: switch letters, numbers or signs LEFT/RIGHT: switch left and right, can select by circle ■ : exit RENAME mode, return normal condition.

		Channel switching function, ATV available as default, DTV available at non open LCN auto ordering condition. 1) at normal condition  , enter SWAP mode, and current selected channel is mobile channel X. 2) at SWAP mode: MENU: exit SWAP mode, turn to normal condition EXIT: exit menu UP/DOWN: choose switching channels  : if current selected channel is what selected before X, no any other action; otherwise, the current channel is channel Y, need to exchange X and Y condition. But the channel number stays 1,2,3...order as before.
 (move)	ATV/DTV	Choose if skip the current channel when CH+/- channel tuning. At non Skip channel, press  , and Skip the current channel; At Skip channel, press  to cancel Skip.
 (FAV)	ATV/DTV	Set your favorite channel

1.1.5 Signal Information

It only make use at DTV condition, shows signal information, includes:
channel /network /modulation /quality /strength.

Item	Showed signal parameter
Signal Information	Pop out Signal Information menu, shows as follows: Channel 21 Network Digita Finland Modulation 64QAM Quality 66% Strength 80%

1.1.6 CI Information

Only be available at DTV condition, it remind if didn't insert CI card. When inserting CI card, you can enter menu to check all information in CI card.

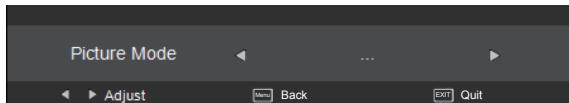
1.1.7 Recorded Mode

Enter Recorder menu, do reservation of recording, check PVR specification in details.

1.2 PICTURE



1.2.1 Picture Mode



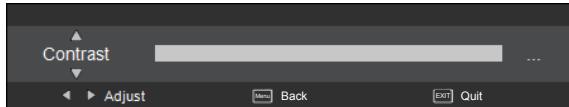
1) Function instruction

Item	Adust range	default	description
Picture Mode	Standard -> Mild -> User -> Dynamic	Standard	Default: at non User mode, you can select Contrast、 Brightness 、 Color 、 Sharpness 、 Tint to do the adjustment, the mode turn to User automatically.

2) operation instruction

Change mode with left right button; turn back to picture main menu by press MENU button, and press EXIT to exit main menu.

1.2.2 Contrast / Brightness / Color / Sharpness



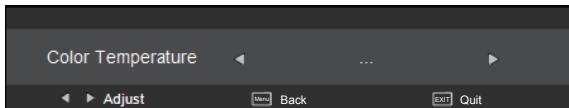
1) function instruction

Item	Adust range	default	description
Contrast	0 - 100	50	
Brightness	0 - 100	50	
Color	0 - 100	50	VGA not available
Sharpness	0 - 100	50	VGA not available
Tint	R50 - 0 - G50	0	Only in NTSC system condition; PAL and SECAM recover to 0;

2) Operation instruction

Adjust :LEFT,RIGHT to adjust numerics size;
Menu :press MENU to return picture main menu;
Exit :EXIT to exit menu;
UP,DOWN: adjust content with up/down button: as
Contrast / Brightness / Color / Sharpness;

1.2.3 Color Temperature



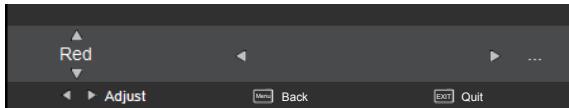
1) function instruction

Item	Adust range	default	description
Color Temperature	Standard-> Cool -> User -> Warm	Standard	At non User mode, you can select Red/Green/Blue options to amend the color. The mode will adjusted for User mode automatically.

2) operation instruction

Adjust :LEFT,RIGHT to adjust content;
Menu :MENU to turn back;
Exit :EXIT to exit menu;

1.2.4 Red /green /blue



1) Function instruction

Item	Adust range	default	description
Red	0 - 100	50	
Green	0 - 100	50	
Blue	0 - 100	50	

2) Operation instruction

Adjust :LEFT,RIGHT to adjust numerics size;
Menu :MENU to turn back picture main menu;
Exit :EXIT to exit main menu;
UP,DOWN button to select adjustable content:
they are Red /green /blue button;

1.2.5 Aspect Ratio

1) function instruction

Panel resolution	default	Input source	mode
16:9 / 16:10	16:9	No VGA	16:9 -> Zoom1 -> Zoom2 -> Auto -> 4:3
		VGA	16:9 -> 4:3
4:3	4:3	No VGA	4:3 -> 16:9 -> Zoom1 -> Zoom2 -> Auto
		VGA	4:3 -> 16:9
4:3 (physical demensions 16:9)	16:9	No VGA	16:9 -> Zoom1 -> Zoom2 -> Auto -> 4:3
		VGA	16:9 -> 4:3

Note: When panel resolution is 4:3, demension is 16:9 and 4:3 mode, actually the output resolution is 1:1.

1.2.6 Noise Reduction

1) Function instruction

Items	Adjust item	Default	description
Noise Reduction	On -> Off	On	VGA set as Off, not adjustable

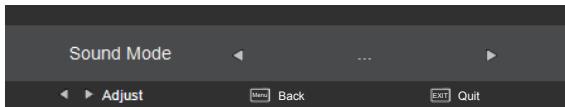
2) Operation instructio

Enter into the menu, choose with UP,DOWN: off /low /middle /default.

1.3 SOUND



1.3.1 Sound mode



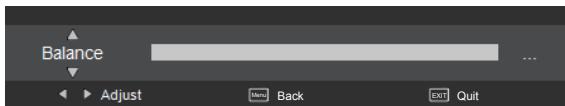
1) Function instruction

Items	Adjust item	Default	description
Sound Mode	Standard -> Music -> Movie -> Sports -> User	Standard	At non User mode, Treble and Bass can't be selected and adjusted

2) Operation instruction

Adjust :LEFT,RIGHT adjustable: Standard -> Music -> Movie -> Sports -> User
Menu :MENU to return picture main menu
Exit :EXIT to exit menu

1.3.2 Treble/ Bass /Balance



1) Function instruction :

Items	Adjust item	Default	description
Treble	0 – 100	50	High sound adjust
Bass	0 – 100	50	Low sound adjust

2) Operation instruction

Adjust:LEFT,RIGHT control data size
Menu :MENU for return to picture main menu
Exit :EXIT
UP,DOWN to choose adjusting content: Treble /Bass /Balance

1.3.3 Auto Volume

- 1) Function: auto sound adjust
- 2) operation: ENTER to set ON/OFF

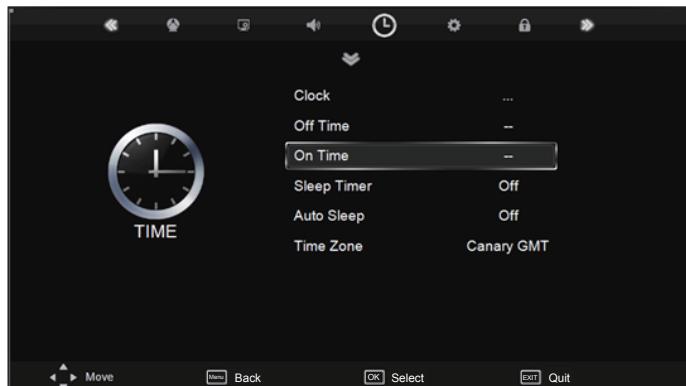
1.3.4 Surround sound

- 1) function : surround settings
- 2) operation: ENTER to set ON/OFF

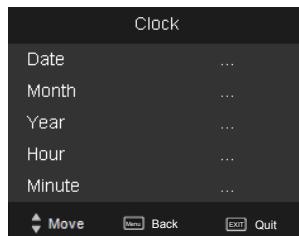
1.3.5 SPDIF

- 1) function : set the SPDIF's output mode.
- 2) Operation instruction: ENTER to set Off, PCM or Auto.

1.4 TIME



1.4.1 Clock



1) function instruction

The default rate isn't get the time information from DTV, but I can set it by hand when enter CLOCK menu.

2) Operation instruction

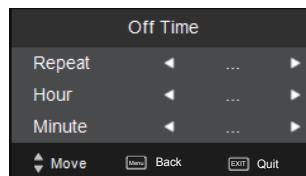
Move :UP,DOWN

Menu :MENU to back picture main menu

Exit :EXIT

LEFT,RIGHT button to set parameter

1.4.2 Off time



1) function instruction

Items	Adjust item	Default	description
Repeat	Off -> Once -> Everyday -> Mon~Fri -> Mon~Sat -> Sat~Sun -> Sun	Off	
Hour	00 - 23	00	When Activate turns Off, Gray, no available
Minute	00 - 59	00	When Activate turns Off, Gray, no available

2) Operation instruction

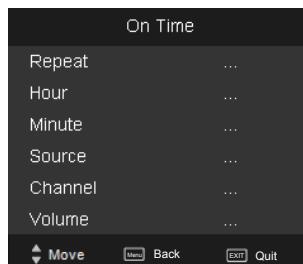
Move :UP,DOWN

Menu :MENU to back picture main menu

Exit :EXIT

LEFT,RIGHT button to set parameter

1.4.3 On time



1) function instruction

Items	Adjust item	Default	description
Repeat	Off -> Once -> Everyday -> Mon~Fri -> Mon~Sat -> Sat~Sun -> Sun	Off	
Hour	00 -> 23	12	When Repeat turns Off, Gray
Minute	00 -> 59	00	When Repeat turns Off, Gray
Volume	0 -> 100	30	When Repeat turns Off, Gray
Source	DTV -> Radio -> Data -> ATV -> ...	DTV	When Repeat turns Off, Gray, no available; The order depends on Input Source order
Channel.	ATV: 1 - 100 DTV/Radio/Data : depending to the channel's information	See Note	When Repeat turns Off, Gray, no available When choose non TV Source, it turn gray; At Source, choose DTV/Radio/Data, but it shows blank when there is no input channel information.

2) Operation instruction
Move :UP,DOWN
Menu :MENU to back picture main menu
Exit :EXIT
LEFT,RIGHT button to set parameter

1.4.4 Sleep time

1) function instruction

Items	Adjust item	Default	description
Sleep Timer	Off -> 10min -> 20min -> 30min -> 60min -> 90min -> 120min -> 180min -> 240min	Off	Reminding at last 60 seconds: Stop reminding when press it , sleep setting turns Off

2) Operation instruction

Enter second menu, use UP,DOWN to set sleep time.

1.4.5 Time zone

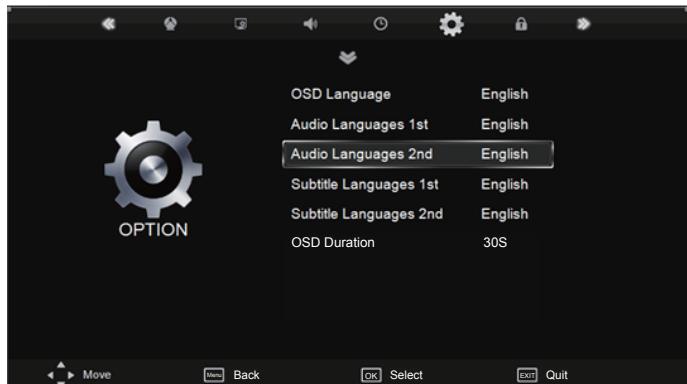
1) function instruction

Items	Adjust item	Default	description
Time Zone			Default choice confirmed as shipping areaand clients demand. When Auto tuning, it switched automatically according to current selected country.

2) Operation instruction

Enter second menu, use UP,DOWN to set time zone:canary
GMT ./Lisbon GMT /London GMT /Amsterdam GMT+1.....

1.5 OPTION



1.5.1 OSD Language

1) Function instruction

Items	Adjust item	Default	description
OSD Language	Supported language		Choose the default language according to shipping address and clients demand. Default language: english/french/germany/italian/portugal

2) Operation instruction

Enter second menu, use UP,DOWN to set language

1.5.2 Audio Language 1st

1) Function instruction

Items	Adjust item	Default	description
Audio Language 1st	First language selected		Not selected at non DTV condition

2) Operation instruction

Enter second menu, use UP,DOWN to set language.

1.5.3 Audio Language 2nd

1) Function instruction

Items	Adjust item	Default	description
Audio Language 2nd	Second language selected		Not selected at non DTV condition

2) Operation instruction

Enter second menu, use UP,DOWN to set language.

1.5.4 Subtitle Language 1st

- 1) function instruction

Items	Adjust item	Default	description
Subtitle Language 1st	First language selected		Not selected at non DTV condition

- 2) Operation instruction

Enter second menu, use UP,DOWN to set language.

1.5.5 Subtitle Language 2nd

- 1) Function instruction

Items	Adjust item	Default	description
Subtitle Language 2nd	Second language selected		Not selected at non DTV condition

- 2) Operation instruction:

Enter second menu, use UP,DOWN to set language.

1.5.6 OSD Duration

- 1) function instruction:

The OSD's duration in the screen.

- 2) Operation instruction:

ENTER to set 5S, 10S, 15S, 20S, 25S, 30S, 35S or 40S.

1.5.7 Country

- 1) function instruction:

Show the current language, gray, no selected.

1.5.8 Restore factory default

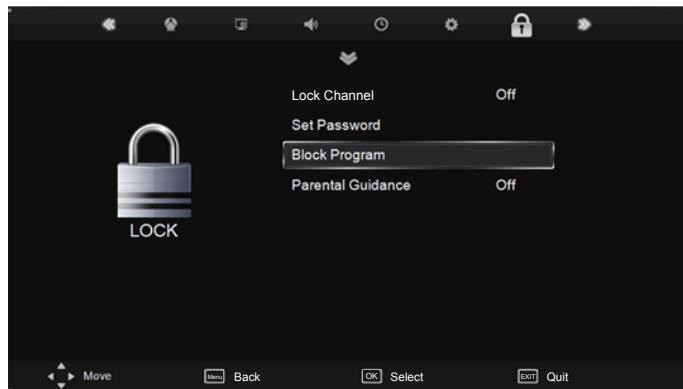
- 1) function instruction:

Restore factory default.

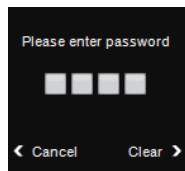
- 2) Operation instruction:

Enter second menu, use UP, DOWN button to select "yes" or "no".

1.6 LOCK



1.6.1 Lock System



1) Function instruction

Items	Adjust item	Default	description
Lock System	Off/On	Off	Default password is 0000

2) Operation instruction

LEFT to quit passport, turn back main menu

RIGHT to delete password wrote and rewrite correct one. It need input correct password to enter the LOCK submenu. It shows wrong password when you put uncorrect password.

MENU to exit to LOCK menu

1.6.2 Set Password



1) Function instruction

Items	Adjust item	Default	description	
Set Password			Enter the submenu, insert new password and confirm it	

2) Operation instruction

LEFT to exit reset password, back to main menu

RIGHT to cancel the written password, and then rewrite it. If the password get wrong twice, it shows "password doesn't match".

1.6.3 Block Program

1) Format and description

Encrypt sign	LCN	CH Name	Lock sign	system
S	21	ABC1		

Note . Lock sign is used when clients do some changes of the channel.

2) Button operation

Button	function
▲	Page up, can circle paging;
▼	Page down, can circle paging;
●(LOCK)	Check if locked the current channel, if locked, it need password before watching. When press ● at non lock mode: lock the current channel When press ● at lock mode: lock canceled

1.6.4 Parental Guidance

1) Function: when setted Parental Guidance is lower than programme true class, it need to lock the channel and then input password to watch it.

Items	Adjust item	Default	description	
Parental Guidance	Off -> 4 -> 5 -> ... -> 18	Off	Not selected at non DTV condition	

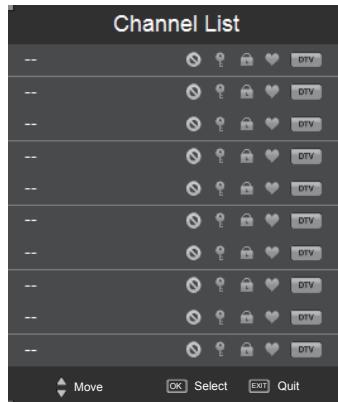
2) Operation instruction

Enter second menu, use UP , DOWN button to choose data, press ENTER to confirm it.

2. Other menu

2.1 Channel List

Channel List shows all searched channel.



1) format and description

Encryption sign	LCN	CH Name	Skip sign	Lock sign	Fav sign	system
S	21	ABC1				

Note: 1. Lock, Fav, Skip sign can be only used when channels do any audits.

2) Button function and instruction

Button	Function
CH List	At DTV/ATV and non Channel List, close non Mute menu to pop out Channel List menu; At Channel List menu, exit Channel List menu;
▲	Page up, can circle paged;
▼	Page down, can circle paged;

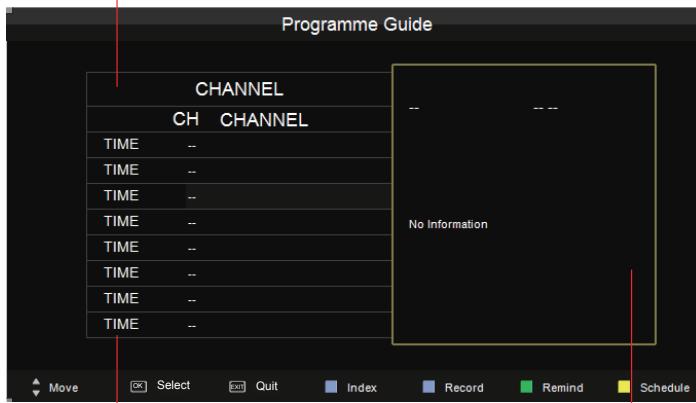
2.2 Favourite List

Favourite List and Channel List is of the same settings, but showed as clients favourite channel in Program edit., use FAV button to show and close Favourite List menu.

2.3 EPG

EPG is only available in DTV, channel information classified by CHANNEL /TIME.

Can choose up and down: Channel /Time



All programme information, if classified by time, it shows all programme informationa at currently time.

Details information of selected programme.

1) operation notes

Move: move up and down

Menu: exit EPG

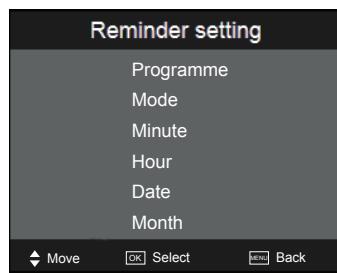
OK: switch to current selected programme

Index: switch to type option

Record: record programme. It show record mode when selected(check PVR manual details).

Schedule: record information. Check details at PVR's Schedule List introduction.

Remind: programme reserved. Choose Remind to show the following settings menu.
Use up and down to choose setted programme.



2.4 Installation Guide



- 1) Function and instruction: If not stored channel information, power on and turn to DTV/ATV condition, it shows Installation Guide menu.
- 2) Operation
Move: move up and down
Exit: exit menu
OK: enter setted tuning mode

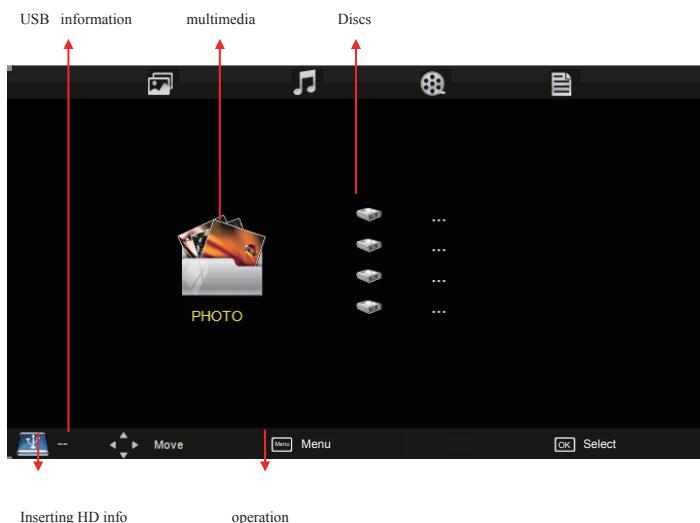
3. Multimedia

3.1 Brief introduction

At Input Source menu, choose USB source to enter Multimedia condition. At Multimedia condition, the system can do the files clarify, order, playing operation and other Browser work besides multimedia playing.

3.2 Multimedia main menu pattern

1) Multimedia main menu style

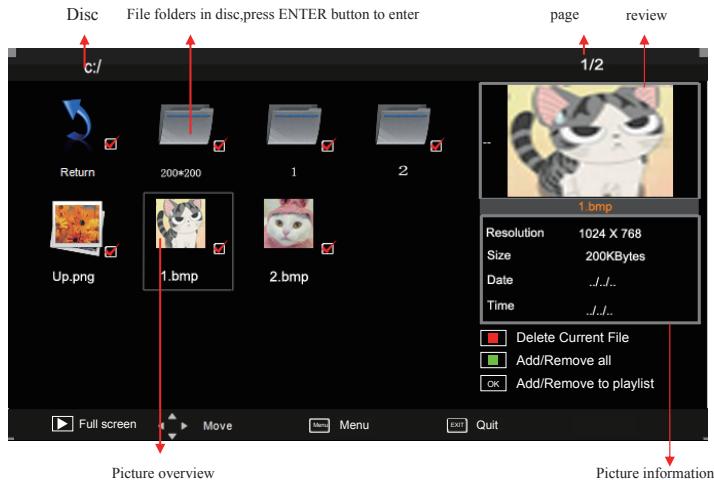


2) Multimedia main menu spare parts introduction

Equip	Instruction
Equip inserting message	If inspect the USB equip inserted, it turn bright; otherwise, it turn gray.
Multimedia style	From left to right PHOTO、MUSIC、MOVIE、TEXT for what need play.
Disc	Shows the insert discs, and order them as letters, from C on.
USB info	It shows current USB equipment information. When no inserting USB, it shows No Device; when inserting USB equipment, it shows USB equip, such as USB2.0、USB1.1 and so on; If inspect there is USB inserting, but with no correct inspection message, it shows Reinsert Device.
Operation guide	Show the current available operation.

3.3 PHOTO submenu pattern

1) Multimedia PHOTO's submenu pattern



Picture overview

Picture information

2) PHOTO submenu instruction

equip	descrip	
Disc	Show the current disc	
Page	Show the page of files, such as 1/2 format, the previous number is current page, the last one is total page	
Picture list	Picture list at Current page	
preview window	Pictures at current point	
Document information	???.jpg [Resolution] 800 x 600 [Size] 28521 Bytes Data Time	
	----files name ----resolusion ----picture size ---- create date ---- create time	

3) Operation instruction

When choose picture, it shows picture preview frame and details, then press ENTER to enter full screen picture playing.

When after picture full playing, press ENTER to show the following operation button.



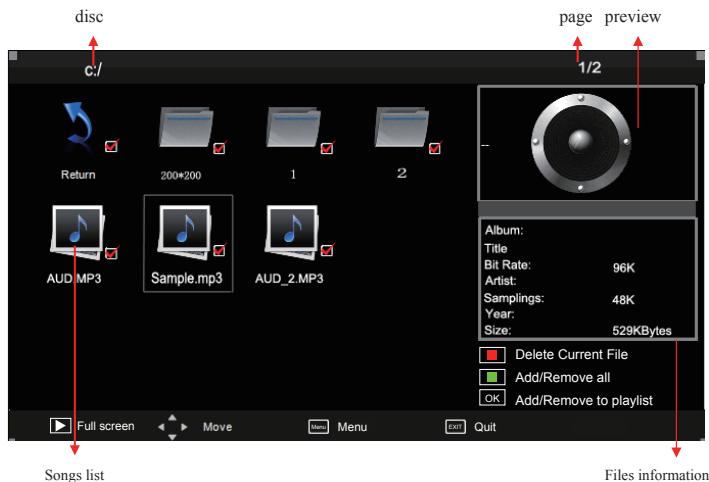
4) Button instruction

Button	Function
Info/Display	Show current picture preview, the information is showed as follows: Blue Hills.jpg ---files name [Resolution] 1024 x 768 ---resolution [Size] 28521 Bytes ---picture size
Exit	Exit playing, enter previous menu, focus to the multimedia menu PHOTO
Play	Full screen playing of photos, if several files need to play, it would switch automatically after some time.(default as 5 second)
Pause	Pause
Stop	Stop playing,enter list menu, focus at the files when exit.
Prev.	Play previous file
Next	Play next file
Repeat	Circle mode, can choose repeat 1, repeat all, repeat none, single pic repeat, selected pics all repeat or non repeat.
Playlist	Playlist
Rotate	Turn pictures by clockwise/ counter clockwise.
Zoom in	Zoom in
Zoom out	Zoom out

3.4 MUSIC submenu pattern, equip and button introduction.

1) Multimedia MUSIC submenu pattern.

When selected songs in the list, press ENTER to show the songs preview, as follows:

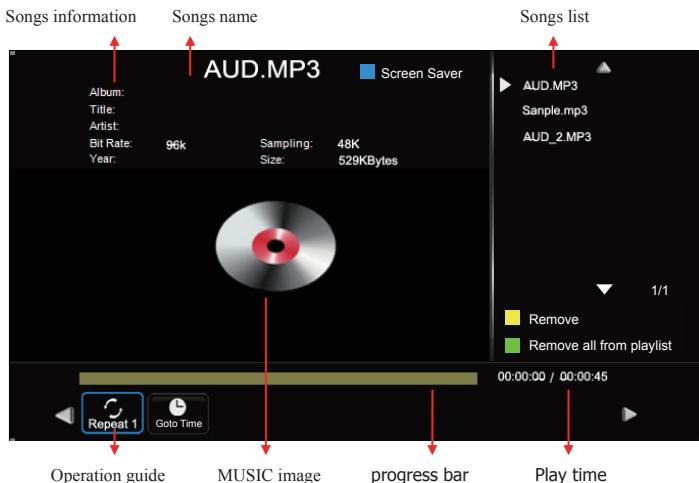


2) MUSIC submenu equip description

equip	descrip
Disc	Show selected euqip disc
Page	Show pages
songs list	Show song lists.
Preview window	Music picture
Fils information	Show songs name and size etc.

3) MUSIC playing condition and keys function

MUSIC playing is the menu just like playing software in PC, mainly have playlist, basic information, processing sign, operation guide part, as follows:



4) MUSIC playing equipment function

Equip	Descrip
Songs name	Current songs name
MUSIC image	One image used to sign MUSIC
Songs list	Songs marked in browser, from the top files on, orders by letters. Items shows and files show at Browser MUSIC is of the same: Artist: ABC Year: 2005 -----artist Title: DEF -----title Album: GHI -----album Bit Rate: 128K Sampling: 44K -----bit rate and sampling All of them are get from files
Playing time	Show playing time and in total, such as 00:01:23/00:04:56 format
Operation guide	Show current operation guide
Processing sign	Show current processing time and rate

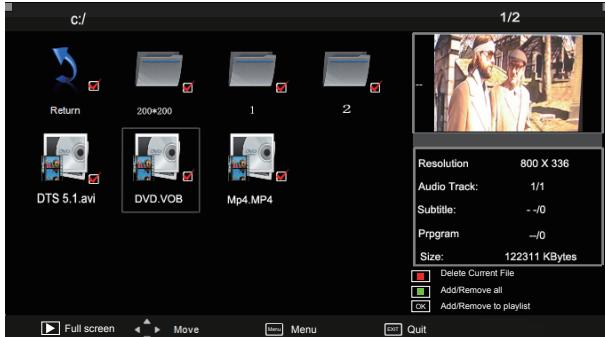
5) Button function

Button	Function
Enter	Play focus files, if focus is current file, it play from the beginning.
Up/Down	Move focus at songs list
Exit	Exit MUSIC playing menu, but keep playing songs, when exit to browser menu, focus at played files before exit
Play	Play
Pause	Pause
Stop	Stop playing, enter browser menu, focus at played files before exit
Next	Play next files
Repeat	Repeat playing, can choose repeat 1, repeat all, repeat none, all repeat and so on

3.5 MOVIE playing condition and button function

1) Playing condition

1. MOVIE is playing at full screen for all marked files when clients browsing, from the top files folder to order with letters.
2. MOVIE's zooming requires: Zooming it at most in the current size to preserve the original size.
- 2) submenu pattern and instruction



Press ENTER to select image, which shows the files preview frame and files information, then press Play to start full playing as follows:



1) Button instruction

Repeat :1, ALL, none

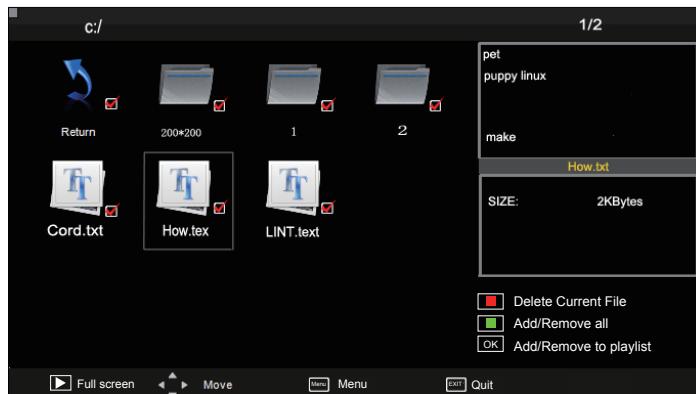
Set A : set A circle playing

Playlist: It pop out File list on the left screen, which shows the current playing list. Clients can browse the list with up down button, and to select files by enter button, then press list or no operation for 10 seconds, it would exit.

Info: Show the current MOVIE information, includes: current film's file name, film's resolution, film's frequency, film's total time and playing time.

Goto: It pop out the frame as: 00:00:00/01:23:45, the first time is what clients input, clients can switch the position with left or right button, you can also switch the number with up or down button, and press ENTER to time settings.

3.6 TEXT



Choose TEXT files, press ENTER and it shows the above frame. Press play to star full screen playing as follows:



Operation :

Prev page: previous page

Next page: next page

Prev.: previous files

Next: next files

Stop: stop auto turning pages

Playlist: playlist, show as top right place

Info: current files information, shows files name and size

4. Personal Video Recorder(PVR)

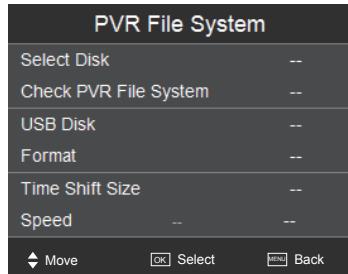
4.1 Brief

PVR function is only available for DTV, includes Record, Timeshift and Playback function. Recording includes in time record and preserve record. In-time record can be worked through short-cut button immediately, and preserve record need to preserve before. Record and Playback can be done of the same time, that means record DTV and playing USB equip at the same time. Timeshift is another function for both record and playing together. The follows it would explain in details.

4.2 PVR menu function details.

4.2.1 PVR File System

Enter PVR from CHANNEL menu, as follows:

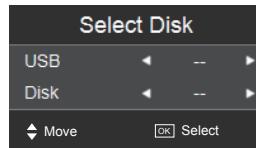


Function

Items	Notes
Check PVR File System	
USB Disk	If not inserting USB equip, it shows Not Find Any USB Device If inserting USB equip, it shows Pass
Format	It can set MStar Format. Press Enter button to through USB and enter Format menu, after enter Format, USB can complete PVR functions. If the function works well, or USB is MStar Format, it shows Pass.
Time Shift Size	Can't be chosen. After Check PVR File System, it means the USB passed. MStar Format can be used at Timeshift space, the size is choosen by clients when doing format.
Speed	Can't be chosen. After Check PVR File System, it shows the USB available speed and remind client to operate it safely with this available speed.

4.2.1.1 Select Disk

Choose the disc to store whatever content need record, as follows, default as C:



4.2.1.2 Check PVR File System

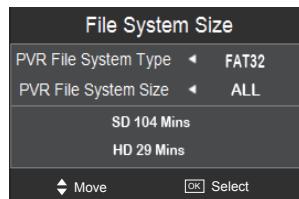
Check storage equipment PVR File System is well established. Default as Start, press Enter button to inspect the USB files system and speed, the processing shows Checking....

When no inserting USB, or inspection failed, it shows FAIL.

When inserting USB but didn't pass MStar Format, enter Format menu.

When inserting USB but inspecting unnormal no partition, it shows No Partition Found.

If inspection normal, it shows SUCCESS.



4.2.1.3 Format

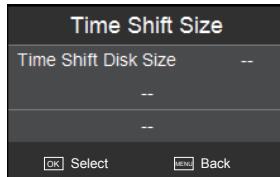
At Format, press Enter button to start Checking PVR File System, after confirmed USB equip information, it pop out Format Disk menu as follows:



After Formating, the system would establish PVR file system according to previous confirmed PVR File System Size.

4.2.1.4 Time shift size

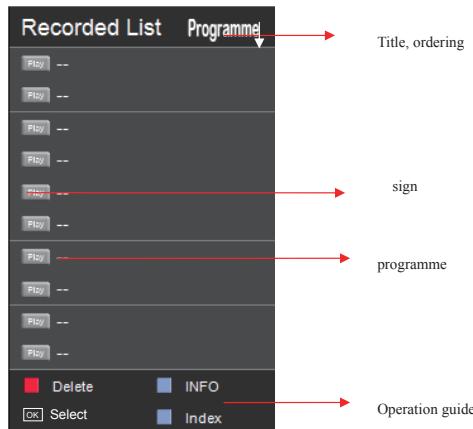
When finish Creating PVR file system, it pop out Time Shift Size setting menu, and clients can set the space size for time shift as follows:



4.2.2 Channel – Recorder List

1) Pattern for reference

The menu is as follows



2) Menu instruction

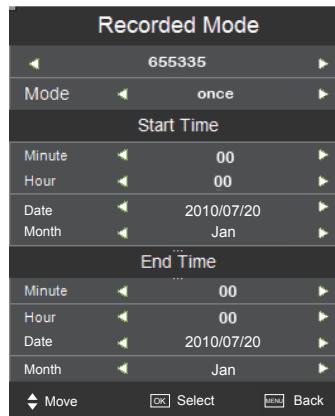
Items	Notes										
Title	Recorded List										
Ordering	Show in title right, means the current ordering way, List/Index button can switch option: Program -> Channel -> Time, which make orders by programme name, channel order and record time.										
Mark	Show current condition, recorded programme shows no mark, if shows  and  , it means recording, and if it shows  and  , it means on the playing, if Focused, it shows color image, otherwise it is gray.										
Prgramme name	The programme name is construct by channel number and record channel number.										
Operation guide	Show the current available operation										
Programme notes	<p>Info/Display and Right can pop out current ticked in the picture.</p> <table> <tr> <td>[DATE] 2005/07/20</td> <td>----record date</td> </tr> <tr> <td>[TIME] 15:29:02</td> <td>----record starting time</td> </tr> <tr> <td>[DURATION] 0000:01:52</td> <td>---duration time</td> </tr> <tr> <td>[CHANNEL NAME] 40 BBC NEWS</td> <td>---channel list</td> </tr> <tr> <td>[PROGRAM NAME] No Information</td> <td>---programme name.</td> </tr> </table>	[DATE] 2005/07/20	----record date	[TIME] 15:29:02	----record starting time	[DURATION] 0000:01:52	---duration time	[CHANNEL NAME] 40 BBC NEWS	---channel list	[PROGRAM NAME] No Information	---programme name.
[DATE] 2005/07/20	----record date										
[TIME] 15:29:02	----record starting time										
[DURATION] 0000:01:52	---duration time										
[CHANNEL NAME] 40 BBC NEWS	---channel list										
[PROGRAM NAME] No Information	---programme name.										

3) Button structure

Button	Function
List/Index	When no menu, press Recorded List When it show Recorded List menu, switch recording programme orders.
Up/Down	Up and down to move Focus to select programme
Left/Right	Close/pop out the programmer instruction
Enter	Play Focus programme
Info/Display	Pop or close programme instruction
●(DELETE)	Delete Focused programme
Menu	Enter Recorded List, press Menu to back to PVR menu, Focus at Recorder List. When enter by List shortcut, exit Recorded List, return current menu.
Exit	Exit

4.2.3 PVR – Record Mode

1) Recorded mode



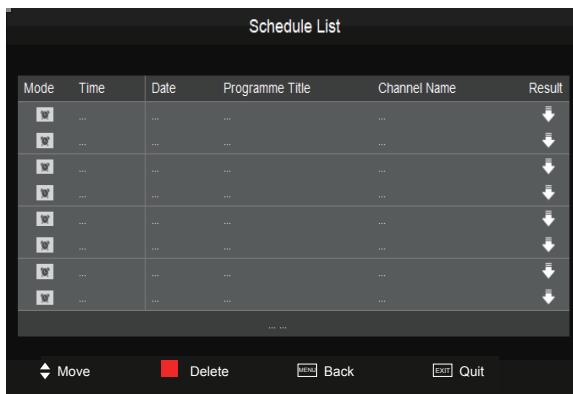
Item	format	notes
Menu title	Recorder Mode	Menu topic
Title	655335	When choose Auto, get current programme to set recording, Title shows its current name. Otherwise, show “—”, can't be used
Mode	Once	Choose recording mode Switch order: Once -> Everyday -> Weekly Delete Auto option Put Auto to record in EPG
Start Date	2005/07/20	Start record date, use Left/Right to set menu.
Start Time	14:00	Start recording time
End Date	2005/07/20	End recording date
End Time	15:00	Recording end time.
Operation guide		Show current operation

2) Button

Button	Function	
	Recorder menu	Time set menu
Menu	Exit Recorder, enter PVR menu, Focus Record Mode	Exit time setting
Up/Down	Move Focus up and down	Move Focus up and down
Left/Right	Adjust Mode, or enter time settings	Adjust data
ENTER	Store current recording and exit Recorder to enter Recorder Schedule List	Confirm current settings and exit time setting
●(Schedule)	Not stored, exit Recorder to enter Recorder Schedule List	----
Exit	Not stored, exit menu	Not stored, exit menu

4.2.4 PVR – Recorder Schedule

1) Menu and function



Note :

- 1.terms in the blank start time ordering according to record plans
If enter the menu to add new plans, focus to new plans.
- 2.It enter the menu when recording, focus on current recording plans.
- 3.Besides 1 and 2 condition, focus to the latest non-start plans.

2) button

Button	Function
Menu	Exit Recorder Schedule List menu, enter PVRmenu, Focus on Recorder Schedule List
Move	Move Focus up and down
●(Delete)	Delete Focus items
Exit	Exit menu

4.3 PVR shortcut function

4.3.1 PVR shortcut buttons under the DTV

Button	Function
PVR	Enter Record mode
TS	Enter Timeshift mode
PVR List	Pop out Recorded List menu, enter OK/Enter to enter Playback, play it

Note: Record and Recorded List can be enter from PVR menu

4.3.2 Record

1) Record

Record menu includes two kind: one is Full Mode, the other is Simple Mode.

They can switch by Record/Exit button.

At Record mode, Record menu shows still.

The details is as follows:

一. Full Mode



Note:

1. Record
2. recorded time
3. the left row is channel name and the right row is programme name
4. current time

二. Simple Mode



Note: At Simple Mode, it only shows Record and record time on the left bottom side.

2) Button function

Button	Function
Stop	Exit Record, shows Processing
Record/Exit	Switch Record menu mode
Play	Enter Playback mode, play it from the start recorded programme Check Playback instruction in details
List	Close Record menu, pop out Recorded List menu enter Playback from menu Recorded List when exit from Recorded List menu, it shows Record again

4.3.3 Timeshift

4.3.3.1 Timeshift menu

Timeshift is similar with Record menu, includes two kind: one is Full Mode and the other is Simple Mode.

They can switch by Exit button.

At Timeshift mode, Timeshift keeps still.

As follows shows:

Full Mode:



Note:

- 1) Shows the current operation, such as Play、Pause、Fast Forward、Fast Rewind、Next、Prev.
- 2) A->B circle signs, when mark A or B, highlight showings, which only show at play condition.
- 3) Timeshift procession showings, the processing tick can show the total length of Timeshift.
- 4) There are two time, one time is start by “-”, the other time is stored content length.
- 5) Current true time.

Simple Mode:



Note:

- 1) At Simple Mode, it shows current Timeshift playing conditon, such as Play、Pause.
- 2) Simple Mode shows on the left bottom side.

4.3.3.2 Timeshift condition

4.3.3.2.1 Timeshift Start condition

Enter Timeshift to press Pause, and the image paused and it start record from the paused position.

It shows Timeshift Start condition, as follows:

Button	Function
Play	Enter Timeshift Play condition
Stop	Stop Timeshift
Exit	Switch Timeshift menu mode
List	Close Timeshift, pop out Recorded List From Recorded List menu to enter Playback, and then exit Timeshift Exit Recorded List first and then show menu Timeshift

4.3.3.2.2 Timeshift Play

At Timeshift Play condition, the system record DTV and play it at the same time. Timeshift Play is start by press Timeshift button, at Timeshift Play condition, it can work Pause、Fast Forward、Fast Rewind, and it would enter A->B circle playing condition.

4.3.3.2.4 Timeshift Record

Timeshift Play can forward by press Fast Forward or Next button, it would enter Timeshift Record condition.

Timeshift Record condition, similar to Record mode.

Timeshift Record condition, the button is as follows:

Button	Function
Pause	Pause playing, and return to Timeshift Play condition
Stop	Stop Timeshift mode
Fast Forward	No use
Fast Rewind	Return to Timeshift Play condition, and operate next part.
Prev.	Return to Timeshift Play condition and previous playing for 30 seconds. If previous to Timeshift recorded content, play it from this place.
Exit	Switch Timeshift menu mode
List	Close Timeshift menu, pop out Recorded List. Enter playback from Recorded List and then quit Timeshift mode. When quit from Recorded List, show Timeshift menu.

4.3.4 Playback

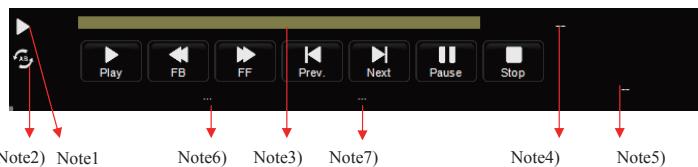
4.3.4.1 Playback

Playback is similar with Timeshift, one is Full Mode, and the other is Simple Mode. They can be switch by Exit button.

At Playback mode, Playback shows still.

Menu mode as following shows:

Full Mode:



Note:

- 1) Shows the current playing condition, shows as different operation such as: Play、Pause、Fast Forward、Fast Rewind、Next、Prev.
- 2) A->Bcircle notes, A or B be marked, high light, which only show in Play condition.
- 3) Play processing stick shows.
- 4) There are two time showing, one is for current playing time and the other is for rest programme time.
- 5) Current time.
- 6) Recorded channel name.
- 7) The programme name, if no name it shows No Information.

Simple Mode:



[00:03:35]

Note:

- 1) At Simple Mode, it shows current Playback mode, such as Play、Pause and so on.
- 2) Simple Mode shows on the left bottom side.

TROUBLESHOOTING



Before consulting service personnel, check the following chart for a possible cause of problem and for a possible solution.

TV will not turn on

- ① Make sure the power cord is plugged in, then press the POWER button on the remote
- ② The batteries in the remote control may be exhausted
- ③ Replace the batteries.

No picture, no sound

- ① Check the interface cable between TV and antenna.
- ② Press the POWER button on the remote.
- ③ Press the SOURCE button on the remote repeatedly to select the connected video sources.

Poor picture, sound OK

- ① Check the interface cable between TV and antenna.
- ② Try another channel, the station may have broadcast difficulties
- ③ Adjust the Brightness/Contrast options in the Menu.

Picture OK, poor sound

- ① Sound may be muted. Press the MUTE button on the remote.
- ② Press the VOL+ button to increase the volume.

Audio noise

- ② Move any infrared equipment away from the TV.

SPECIFICATIONS

Items		Relevant illustration
Panel		22" Wide Screen LCD
Resolution		1920 x 1080 pixels
Features	Compatible areas	Multiform
	TV standard	PAL
	DTV standard	DVB-T
Input interface	PC	D-sub 15pin input interface
	CVBS, YPbPr,HDMI	Composite video input interface, YPbPr input interface HDMI input interface
	RF	75 Ω aerial interface
	SCART	Standard Full SCART interface
	Audio	Left, right audio input interface
	USB	USB devices input interface
Headphone Output		Headphone output interface
Speaker Output		5W x 2
COAXIAL Output		COAXIAL output interface
OSD language		English, French, Deutsch
Power supply		AC in 100-240V, 50/60Hz; DC out 12V,6.0A
Power consumption		Working 72W(Max), Standby 1W
Dimension		565 x 415 x 142 mm (Gift Box)
Weight		4Kg (Net)
Accessories		User Manual Warranty Card Remote Control AAA Battery Power Cord AC Adapter Screwdriver

Features and Specifications are subject to change without notice